

## Abstract

A data processing system, recording device, data processing method and program providing medium execute authentication processing and content storing processing between two apparatuses that execute data transfer taking into consideration utilization restraint of contents. A plurality of key blocks are formed which stores key data for authentication processing in a recording device, and key data of the plurality of key blocks is made data that is different for each block. Key block designation information is set in a recorder/reproducer, which is configured for executing authentication processing with the recording device by designating a key block. The recorder/reproducer can set a key block for each product, model or the like, and can easily set utilization restraint of contents in the reproducer. In addition, since a storing key stored in each key block is different, data stored in a storage section of the recording device in a different key block cannot be utilized in a recorder/reproducer in which other key block is set, and circulation of key data or the like can be prevented. Furthermore, an encryption processing controlling section of a recording device executes control for executing commands that is required for authentication processing, encryption processing of stored data and the like in accordance with a setting sequence defined in advance. The controlling section monitors a command number transmitted from a recorder/reproducer to the recording device, and receives and